Appendix C - Implementation Guide

Overview/Purpose

This purpose of this document is to provide the structure and information necessary to develop EDI transactions required to implement the Maine Electronic Business Transaction Document, Appendix A and Appendix B. This Implementation Guide was created following UIG 4010 standards and as such is considered UIG compliant. Information specific to each transaction is documented within each the Transaction Set section.

List of Current Maine Transactions

810	Invoice	ANSI ver4010	page C.2.1
814	General Request, Response or Confirmation	ANSI ver4010	page C.3.1
820	Payment Order/remittance	ANSI ver4010	page C.4.1
824	Application Advice	ANSI ver4010	page C.5.1
867	Product Transfer and Resale Report	ANSI ver4010	page C.6.1
997	Functional Acknowledgement	ANSI ver4010	page C.7.1

The format layout within each Transaction set is as follows:

> Introduction
> Business Function
> Transaction Best Practices
> Transaction Notes
> Transaction Layout
> Segment Detail (one segment per page)

Important Assumptions and Business Rule Implications

The Value Added Network (VAN) Provider will deliver transactions in order in which it was received.

Must Use segments are based on Maine requirements.

As Long as a transaction set is UIG compliant, it will not be rejected because of optional fields that are not part of the Maine Implementation Standards.

Global Best Practices for all transactions

Use of Text Segments
The UIG recommends that the note (NTE) segment be avoided because this segment is not machine-readable. Other text segments, such as MSG and PID, may be used if their use will lead to machine- processable information in subsequent applications.

Use of ZZ Qualifier
The use of data fields to transmit uncoded or textual information should be avoided. This practice is usually associated with the use of the ZZ qualifier as a normal course of doing business.

997 - Functional Acknowledgment
The purpose of the 997 is to verify receipt of a transmitted document only, not the acceptance of the document. For example, the acceptance of a purchase order (850) is accomplished through the use of the purchase order acknowledgment transaction (855).

Interchange Control Number
A unique and sequential interchange control number should be used on every envelope that is transmitted to a trading partner. This approach will allow the receiver to audit the interchange for any duplicate or missing transmissions.

Use of Dun & Bradstreet (D-U-N-S) Number
Dun & Bradstreet assigns a nine-digit identification number to every business entity. This number, known as the D-U-N-S number, should be used to identify the trading partners. A trading partner may append a four-digit suffix to the D-U-N-S number to uniquely identify a specific location within the entity; this number is referred to as a D-U-N-S + 4 number.

Banking Transactions
Guidelines that outline the use of transactions relating to interactions between a sender and the sender's financial institution are available from the Bankers EDI Council and the NACHA EDI Council. Other publications that address the use of financial payment transactions include Technical Report 1 (TR1) and Technical Report 2 (TR2); both of these publications are available from DISA.

Capitalization
The use of all upper case (capital) letters is preferred over the use of mixed upper and lower case letters.

<u>Owner Information</u>

All Maine EDI transaction sets are 'owned' by a member of the Maine EBT Working Group's EDI Subgroup. The 'owner' of the implementation guide is responsible for all document maintenance, including updates, revisions, etc.

The current owners of the Appendix C Implementation Guide are:

Transaction Set		Owner	Email
810	Invoice	Sandra Brunelle, CMP	Sandra.Brunelle@cmpco.com
814	General Request, Response or Confirmation	Chris Libby, MPS	Clibby@mps.mfx.net
820	Payment Order/Remittance Advice	Gerri Daggett, BHE	Gdaggett@bhe.com
824	Application Advice	Gerri Daggett, BHE	Gdaggett@bhe.com
867	Product Transfer & Resale Report	Sandra Brunelle, CMP	Sandra.Brunelle@cmpco.com
997	Functional Acknowledgement	Gerri Daggett. BHE	Gdaggett@bhe.com

810 Invoice
Ver/Rel 004010

Functional Group ID=IN

Introduction

This transaction will allow Distribution companies to send usage and billing information for electricity to the suppliers who have enrolled customers. The transaction set can be used to provide for customary and established business and industry practice relative to the billing for goods and services. The transaction will be sent on an account by account basis, allowing only one account per transaction. The only exception to this is the 810-3, where one transaction will be sent to the Standard Offer Providers looped by all rate classes.

Business Functions

Customer Usage Information for Separate (Dual) billing (810-1)
Customer Usage Information for T&D Consolidated (810-2)
Customer Usage & Billing Information for Standard Offer Billing (810-3)

Transaction Set Notes

1. One 810 will be created for each account for a given billing cycle and sent to supplier by the distribution company. A standard offer rate class will be treated as one account. Each customers account for the specific Supplier defined by the N1 within will create looping at the IT1 segment level.

2. The IT1 loop structure is used to provide information by account, meter, unmetered and rate; a single account with one meter is transmitted at the account level.

3. The tax information is provided at the IT1 loop level via the TXI segment. The IT1 loop can be repeated relative to rate elements if tax needs to be calculated according to rate.

Transaction Best Practices

Use of The IT1 Segment
An IT1 loop is used to accumulate all consumption and charge detail for a single meter or service. Each meter or service will be detailed in a separate IT1 loop.

Use of the MEA Segment
The MEA segment is used to convey consumption for one metering period.

UIG Definitions for MEA07 Measurement Significance Codes

The metering characteristics of the utility industry require measurement definitions in addition to those found in Data Element 935, *Measurement Significance Code*. The UIG has submitted data maintenance (DM) requests to have these additional definitions added to DE 935 in a future version of the X12 standards. In order to provide these measurement definitions for version 4010 implementations, the UIG has provided UIG-specific definitions for valid DE 935 codes. To assist application developers, who may wish to include the requested future codes in their application logic, the list of non-standard definitions found in MEA07 includes references to the requested codes.

Use of the PID Segment

The PID segment is used to convey required messages that apply to a particular service only.

Use of the Detail IT1/REF Segment, Position 120

This segment is used only when the IT1 loop is used to present account information. Trading partners using the meter model (where an IT1 conveys meter charges and usage) should provide the account reference information in the Header REF, position 050.

Use of the SLN Segment

The IT1/SLN segment is used to overcome the limitation on the number of IT1/SAC loops. In some environments, more than 25 separate charges or allowances are associated with one IT1. Use of the SLN segment provides for a maximum of 1,000 individual SAC and TXI iterations. If and when the 810 is revised to permit more than 25 IT1/SAC loops, this 810 Guideline will be revised to remove the SLN segment.

Values in Elements SAC01 and SAC05

Previous editions of this guideline stated that the amount shown in SAC05 will always be positive and that the code used in SAC01 will indicate whether to add or subtract the SAC05 amount to or from the TDS. As a result of a clarification provided by X12F, it has been determined that the above statement is incorrect; future versions of the UIG guidelines will no longer contain the above statement. The code used in SAC01 does not indicate the sign of the amount in SAC05. The amount shown in SAC05 may be either positive or negative; if negative, the minus sign, " - ", must be transmitted.

Trading partners who implemented the former guidance regarding SAC01 and SAC05 may continue to follow that guidance or may elect to revise their implementation to conform to the current guidance. New implementations should follow the guidance contained herein.

Transaction Set Layout

Heading:

	Pos. No.	Seg. ID	Name	Req. Des.	Max. Use	Loop Repeat	Notes & Comments
Must Use	010	ST	Transaction Set Header	M	1		
Must Use	020	BIG	Beginning Segment for Invoice	M	1		
Must Use	050	REF	Activity Code	O	1		
Must Use	050	REF	Billing Option	O	1		
	050	REF	Billing Cycle	O	1		
			LOOP ID - N1			1	
Must Use	070	N1	Distribution Company	O	1		
			LOOP ID - N1			1	1
Must Use	070	N1	Supplier	O	1		
	140	DTM	Date/Time Reference	O	1		

Detail:

	Pos. No.	Seg. ID	Name	Req. Des.	Max. Use	Loop Repeat	Notes & Comments
			LOOP ID – IT1			>1	1,2
Must Use	010	IT1	Baseline Item Data (Invoice)	O	1		
	040	TXI	Tax Information	O	1		
Must Use	059	MEA	Measurements	O	>1		3
	120	REF	Non-Metered Units	O	1		
Must Use	120	REF	Supplier Account Number	O	1		
Must Use	120	REF	Distribution Co. Account Number	O	1		
	120	REF	Type of Service Indicator	O	1		
Must Use	120	REF	Supplier Rate Code	O	1		
	120	REF	Service Identifier	O	1		
Must Use	150	DTM	Date	O	>1		
			LOOP ID – SLN			>1	
Must Use	200	SLN	Subline Item Detail	O	1		
Must Use	230	SAC	Service, Promotion, Allowance, or Charge Information	O	1		

Summary:

	Pos. No.	Seg. ID	Name	Req. Des.	Max. Use	Loop Repeat	Notes & Comments
Must Use	010	TDS	Total Monetary Value Summary	M	1		
Must Use	150	SE	Transaction Set Trailer	M	1		

Segment: **ST Transaction Set Header**
Position: 010
Loop:
Level: Heading
Usage: Must Use
Max Use: 1
Purpose: To indicate the start of a transaction set and to assign a control number
Comments:

Data Element Summary

	Ref. Des. Attributes	Data Element	Name		
M/U	ST01	143	**Transaction Set Identifier Code**	M	ID 3/3
			Code uniquely identifying a Transaction Set		
			810 Invoice		
M/U	ST02	329	**Transaction Set Control Number**	M	AN 4/9
			Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set		
			Unique number generated by sender's translator		

Segment: **BIG Beginning Segment for Invoice**
Position: 020
Loop:
Level: Heading
Usage: Must Use
Max Use: 1
Purpose: To indicate the beginning of an invoice transaction set and transmit identifying numbers and dates
Comments:

Data Element Summary

	Ref. Des. Attributes	Data Element	Name		
M/U	BIG01	373	**Date**	M	**DT 8/8**
			Date (CCYYMMDD)		
			File creation date		
M/U	BIG02	76	**Invoice Number**	M	**AN 1/22**
			Identifying number assigned by issuer		
			The distribution company will send a unique tracking number. An example of this could be an invoice number.		

Segment: **REF Reference Identification - Activity Code**
Position: 050
Loop:
Level: Heading
Usage: Must Use
Max Use: 1
Purpose: To specify identifying information
Comments:

Data Element Summary

M/U	Ref. Des. Attributes	Data Element	Name		
M/U	REF01	128	**Reference Identification Qualifier**	M	ID 2/3
			Code qualifying the Reference Identification		
			BE Business Activity		
	REF02	127	**Reference Identification**	X	AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier		
			Activity Code		
			0 Normal On-Cycle Bill		
			1 Cancellation		
			1C Cancel Current CES		
			1P Cancel Prior CES		
			2 Manual Bill		
			2C Re-bill Current CES		
			2P Re-bill Prior CES		
			3 Final Bill		
			4 Off-Cycle Bill		
			5 No Current Bill, Balance Only		
			6 Estimated On-Cycle Bill		
			7 Estimated Off-Cycle Bill		
			8 Late Read/Late Booked		
			9 Final Move		

Segment: **REF Reference Identification - Billing Option**
Position: 050
Loop:
Level: Heading
Usage: Must Use
Max Use: 1
Purpose: To specify identifying information
Comments:

Data Element Summary

	Ref. Des. Attributes	Data Element	Name		
M/U	REF01	128	**Reference Identification Qualifier**	M	ID 2/3
			Code qualifying the Reference Identification		
			BLT	Billing Type	
				Identifies whether the T&D or CES consolidates the bill or whether each party will render their own bill.	
M/U	REF02	127	**Reference Identification**	X	AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier		
			LDC	The distribution company bills the customer for both the distribution company and supplier charges. (Consolidated)	
			DUAL	The distribution company and the supplier bill the customers their own charges with separate bills. (Separate)	

Segment: **REF Reference Identification - Billing Cycle**
Position: 050
Loop:
Level: Heading
Usage: Must Use
Max Use: 1
Purpose: To specify identifying information
Comments:

Data Element Summary

M/U	Ref. Des. Attributes	Data Element	Name		
M/U	**REF01**	**128**	**Reference Identification Qualifier**	**M**	**ID 2/3**
			Code qualifying the Reference Identification		
			BF Billing Center Identification		
			Billing cycle number		
M/U	**REF02**	**127**	**Reference Identification**	**X**	**AN 1/30**
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier		
			Billing Cycle Number when the bill was rendered.		

Segment: **N1 Name - Distribution Company**
Position: 070
Loop: N1
Level: Heading
Usage: Must Use
Max Use: 1
Purpose: To identify a party by type of organization, name, and code
Comments:

Data Element Summary

M/U	Ref. Des. Attributes	Data Element	Name		
M/U	**N101**	**98**	**Entity Identifier Code**	**M**	**ID 2/3**
			Code identifying an organizational entity, a physical location, property or an individual		
			8S Distribution Company		
	N102	**93**	**Name**	**X**	**AN 1/60**
			Free-form name		
			Distribution Company Name		
M/U	**N103**	**66**	**Identification Code Qualifier**	**X**	**ID 1/2**
			Code designating the system/method of code structure used for Identification Code (67)		
			1 DUNS Number (Dun & Bradstreet)		
M/U	**N104**	**67**	**Identification Code**	**X**	**AN 2/80**
			Code identifying a party or other code		
			Distribution Company DUNS Number		

Segment: **N1 Name - Supplier**
Position: 070
Loop: N1
Level: Heading
Usage: Must Use
Max Use: 1
Purpose: To identify a party by type of organization, name, and code
Comments:

Data Element Summary

M/U	Ref. Des. Attributes	Data Element	Name		
M/U	N101	98	**Entity Identifier Code**	M	ID 2/3
			Code identifying an organizational entity, a physical location, property or an individual		
			SJ Service Provider (CES)		
	N102	93	**Name**	X	AN 1/60
			Free-form name		
			Energy Supplier Name		
M/U	N103	66	**Identification Code Qualifier**	X	ID 1/2
			Code designating the system/method of code structure used for Identification Code (67)		
			9 DUNS Number plus four digit qualifier		
M/U	N104	67	**Identification Code**	X	AN 2/80
			Code identifying a party or other code		
			Supplier DUNS number plus four digit qualifier		

Segment: **DTM Date/Time Reference - Billing Date**
Position: 140
Loop:
Level: Heading
Usage: Optional (See comments)
Max Use: 1
Purpose: To specify pertinent dates and times
Comments: **1.** Mandatory for consolidated billing only

Data Element Summary

	Ref. Des. Attributes	Data Element	Name		
M/U	DTM01	374	**Date/Time Qualifier**	M	ID 3/3
			Code specifying type of date or time, or both date and time		
			434 Statement (date on which the billing document was created)		
M/U	DTM05	1250	**Date Time Period Format Qualifier**	X	ID 2/3
			Code indicating the date format, time format, or date and time format		
			D8 Date Expressed as CCYYMMDD		
M/U	DTM06	1251	**Date Time Period**	X	AN 1/35
			Expression of a date, a time, or range of dates, times or dates and times		
			Billing Date		

Segment: **IT1 Baseline Item Data (Invoice)**
Position: 010
Loop: IT1
Level: Detail
Usage: Must Use
Max Use: 1
Purpose: To specify the basic and most frequently used line item data for the invoice and related transactions
Comments:
1. The transaction will contain an IT1 loop for each service billed on the account.
2. If and only if IT109 contains 'METER,' IT109 must be qualified by IT110 and IT111.
3. IT112 and IT113 are used to indicate that consumption will be provided, but the actual meter readings will not be provided.

Data Element Summary

	Ref. Des. Attributes	Data Element	Name		
M/U	IT101	350	**Assigned Identification**	X	AN 1/20
			Alphanumeric characters assigned for differentiation within a transaction set		
			Line item Counter		
M/U	IT106	235	**Product/Service ID Qualifier**	X	ID 2/2
			Code identifying the type/source of the descriptive number used in Product/Service ID		
			SV Service Rendered		
M/U	IT107	234	**Product/Service ID**	X	AN 1/48
			Identifying number for a product or service		
			'ELECTRIC'		
M/U	IT108	235	**Product/Service ID Qualifier**	X	ID 2/2
			Identifying number for a product or service		
			C3 Classification		
M/U	IT109	234	**Product/Service ID**	X	AN 1/48
			Identifying number for a product or service		
			ACCOUNT METER RATE (Used only for Standard Offer) UNMET (Unmetered service)		
	IT110	235	**Product/Service ID Qualifier**	X	ID 2/2
			Code identifying the type/source of the descriptive number used in Product/Service ID (234)		
			MB Measurement Type Code		
	IT111	234	**Product/Service ID**	X	AN 1/48
			Identifying number for a product or service		
			NT Non-TOU Measurement TOU TOU Measurement		
M/U	IT112	235	**Product/Service ID Qualifier**	X	ID 2/2
			Code identifying the type/source of the descriptive number used in Product/Service ID (234)		

			EQ Equipment Type		
M/U	**IT113**	**234**	**Product/Service ID**	**X**	**AN 1/48**
			Identifying number for a product or service		
			NR No reads will be presented		

Segment: **TXI**   **Tax Information**
Position: 040
Loop: IT1
Level: Detail
Usage: Optional
Max Use: 10
Purpose: To specify tax information
Comments: Taxes included in this position relate to the IT109 loop identification level charges.

Data Element Summary

M/U	Ref. Des. Attributes	Data Element	Name		
M/U	TXI01	963	**Tax Type Code**	M	ID 2/2
			Code specifying the type of tax		
			SU Sales and Use Tax (Maine State Sales Tax)		
	TXI02	782	**Monetary Amount**	X	R 1/18
			Monetary Amount		
			Current Sales Tax Amount		
	TXI07	662	**Relationship Code**	O	ID 1/1
			Code indicating the relationship between entities		
			A Add The amount in the TXI02 should be added when summing the invoice total.		

Segment: **MEA Measurements**
Position: 160
Loop: QTY
Level: Detail:
Usage: Optional
Max Use: >1
Purpose: To specify historical usage or demand measurements.
Comments:

Data Element Summary

	Ref. Des. Attributes	Data Elements	Name		
M/U	MEA01	737	**Measurement Reference ID Code** Code identifying the broad category to which a measurement applies	M	ID 2/2
			BO - Calculated **EN - Estimated** **AN - Actual**		
M/U	MEA03	739	**Measurement Value** The value of the measurement	R	1/20
			Actual usage or demand value		
M/U	MEA04	C001	**Composite Unit of Measure** To identify a composite unit of measure		
	C00101	355	**Unit or Basis for Measurement Code** Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken		ID 2/2
			K1 – Kilowatt Demand **KH – KWH** **K5 – KvarH** **K2 – Kvar Demand**		
M/U	MEA07	935	**Measurement Significance Code** Code used to benchmark, qualify or further define a measurement value		ID 2/2
			41 - Off-peak **42 - On-peak** **66 - Shoulder** **51 - Total**		

Segment: **REF Reference Identification - Non-Metered Units**
Position: 120
Loop: IT1
Level: Detail
Usage: Must Use
Max Use: >1
Purpose: To specify identifying information
Syntax Notes:
Comments:

Data Element Summary

	Ref. Des. Attributes	Data Element	Name		
M/U	REF01	128	**Reference Identification Qualifier**	M	ID 2/3
			Code qualifying the Reference Identification		
			PRT Product type		
M/U	REF02	127	**Reference Identification**	X	AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier		
			N (Non-metered service)		
M/U	REF03	352	**Reference Identification**	X	AN 1/80
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier		
			Number of non-metered units		

Segment: **REF Reference Identification - Supplier account number**
Position: 120
Loop: IT1
Level: Detail
Usage: Must Use
Max Use: 1
Purpose: To specify identifying information
Comments:

Data Element Summary

M/U	Ref. Des. Attributes	Data Element	Name		
M/U	REF01	128	**Reference Identification Qualifier**	M	ID 2/3
			Code qualifying the Reference Identification		
			11 Account Number		
			Energy Service Provider assigned account number for the end use customer		
M/U	REF02	127	**Reference Identification**		AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier		
			Supplier Customer Account Number		

Segment: **REF Reference Identification - Distribution Company Account**
Position: 120
Loop: IT1
Level: Detail
Usage: Must Use
Max Use: 1
Purpose: To specify identifying information
Comments:

Data Element Summary

M/U	Ref. Des. Attributes	Data Element	Name		
M/U	REF01	128	**Reference Identification Qualifier**	M	ID 2/3
			Code qualifying the Reference Identification		
			12 Billing Account		
			Utility assigned account number for the end use customer		
M/U	REF02	127	**Reference Identification**		AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier		
			Distribution Company Customer Account Number		

Segment: **REF Reference Identification - Supplier Rate Code**
Position: 120
Loop: IT1
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To specify identifying information
Comments: **1.** Mandatory for consolidated billing, 810-2.

Data Element Summary

	Ref. Des. Attributes	Data Element	Name		
M/U	REF01	128	**Reference Identification Qualifier**	M	ID 2/3
			Code qualifying the Reference Identification		
			RB Rate Code Number		
			Identifies an Energy Service Provider rate class		
M/U	REF02	127	**Reference Identification**	X	AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier		
			Supplier Rate Code		

Segment: **REF Reference Identification - Type of Service Indicator**
Position: 120
Loop: IT1
Level: Detail
Usage: Must Use
Max Use: 1
Purpose: To specify identifying information
Comments:

Data Element Summary

M/U	Ref. Des. Attributes	Data Element	Name		
M/U	REF01	128	**Reference Identification Qualifier**	M	ID 2/3
			Code qualifying the Reference Identification		
			PRT Product Type		
	REF02	127	**Reference Identification**	X	AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier		
			Type of Service Indicator		

    C = Combined Service
    D = Metered Service Demand & kWH
    E = Metered Service kWH
    H = Controlled Hot Water
    L = Lighting Service
    N = Non-Metered Service
    T = Metered Service TOU
    P = Pending Account
    A = Apply to All Services

Segment: **REF Reference Identification - Service Identifier**
Position: 120
Loop: IT1
Level: Detail:
Usage: Must Use
Max Use: 1
Purpose: To specify identifying information
Comments:

Data Element Summary

M/U	Ref. Des. Attributes	Data Elements	Name		
M/U	REF01	128	**Reference Identification Qualifier**	M	ID 2/3
			Code qualifying the Reference Identification		
			MG Meter Number		
			SC Service Indicator		
M/U	REF02	127	**Reference Identification**	X	AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier		
			If REF01 contains MG, REF02 must contain the meter number.		
			If REF01 contains SC, REF02 contains a 'U' and REF03 contains a description of the unmetered rate plan.		
	REF03	352	**Description**	X	AN 1/80
			A free-form description to clarify the related data elements and their content.		
			Unmetered rate plan description.		

Segment: **DTM Date/Time Reference - Period**
Position: 150
Loop: IT1
Level: Detail:
Usage: Must Use
Max Use: >1
Purpose: To specify pertinent dates and times
Comments:

Data Element Summary

	Ref. Des. Attributes	Data Elements	Name		
M/U	DTM01	374	**Date/Time Qualifier**	M	**ID 3/3**
			Code specifying type of date or time, or both date and time		
			150 Service Period Start		
			151 Service Period End		
M/U	DTM05	1250	**Date Time Period Format Qualifier**	X	**ID 2/3**
			Code indicating the date format, time format, or date and time format		
			D8 Date Expressed in Format CCYYMMDD		
M/U	DTM06	1251	**Date Time Period**	X	**AN 1/35**
			Expression of a date, a time, or range of dates, times or dates and times		
			Date		

Segment: **SLN Subline Item Detail**
Position: 200
Loop: SLN
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To specify product subline detail item data
Comments:

Data Element Summary

	Ref. Des. Attributes	Data Element	Name		
M/U	SLN01	350	**Assigned identification**	M	AN 1/20
			Alphanumeric characters assigned for differentiation within a transaction set.		
			Used as a loop counter		
M/U	SLN03	662	**Relationship Code**	M	ID 1/1
			Code indicating the relationship between entities		
			A Add		

Segment: **SAC Allowance, or Charge Information - Current Billed Amount**

Position: 230
Loop: SLN
Level: Detail
Usage: Optional
Max Use: 25
Purpose: To request or identify a service, promotion, allowance, or charge; to specify the amount or percentage for the service, promotion, allowance, or charge
Comments: When SAC04 contains 'PRB001,' SAC01 will contain 'N' so as to not calculate past due charges in the current bill total.

Data Element Summary

M/U	Ref. Des. Attributes	Data Element	Name		
M/U	SAC01	248	**Allowance or Charge Indicator**	M	ID 1/1
			Code which indicates an allowance or charge for the service specified		
			A Allowance (Account specific charge due Distribution Company)		
			C Charge		
			N No allowance or charge (The amount in SAC05 should be ignored when calculating the total.)		
	SAC03	559	**Agency Qualifier Code**	X	ID 2/2
			Code identifying the agency assigning the code values		
			EU Electric Utilities		
			* When approved by UIG, 'EU' will change to 'UT.'		
	SAC04	1301	**Agency Service, Promotion, Allowance, or Charge Code**	X	AN 1/10
			Agency maintained code identifying the service, promotion, allowance, or charge		
			ENC001 Energy Charges (Total)		
			ENC037 Peak Charges		
			ENC003 Off-peak Charges		
			ENC038 Shoulder Charges		
			PRB001 Past Due Balance		
			LPC001 Late Payment Charges		
			DMD001 Demand Charge		
			BAS001 Basic Customer Charge		
			SER001 Service Charges		
M/U	SAC05	610	**Amount**	O	N2 1/15
			Monetary amount		
			Current Amount		

Segment: **TDS Total Monetary Value Summary**
Position: 010
Loop:
Level: Summary
Usage: Must Use
Max Use: 1
Purpose: To specify the total invoice discounts and amounts
Comments:

Data Element Summary

M/U	Ref. Des. Attributes	Data Element	Name		
M/U	TDS01	610	**Amount**	M	N2 1/15
			Monetary amount		
			Current billed dollar amount for suppliers		

Segment: **SE Transaction Set Trailer**
Position: 080
Loop:
Level: Summary
Usage: Must Use
Max Use: 1
Purpose: To indicate the end of the transaction set and provide the count of the transmitted segments (including the beginning (ST) and ending (SE) segments)
Comments: SE is the last segment of each transaction set.

Data Element Summary

	Ref. Des. Attributes	Data Element	Name		
M/U	SE01	96	**Number of Included Segments**	M	N0 1/10
			Total number of segments included in a transaction set including ST and SE segments		
M/U	SE02	329	**Transaction Set Control Number**	M	AN 4/9
			Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set		

814 General Request,
Response or Confirmation
Ver/Rel 004010

Functional Group ID=GE

Introduction

The 814 General Request, Response or Confirmation can be sent from a Supplier to a Distribution Company or vice-versa. This transaction's purpose is multi-faceted. It is intended to be used to accommodate multiple administrative enrollment functions as identified in the detail LIN03 value. It has the possibility of accomplishing any of the following.

Business Functions

Enroll Customer (814 - 1)
Change Enrollment Detail - Supplier Data (814 - 2)
Change Enrollment Detail - Distribution Co. Data (814 - 3)
Successful Enrollment Response (814 - 4)
Customer Move Notification (814 - 5)
Error Response (814 - 6)
Customer Drops Supplier (814 - 7)
Supplier Drops Customer (814 - 8)
Drop Date Confirmation (814 - 9)
Historical Usage Request (814 - 10)

Transaction Set Notes

1. There will be one 814 from a Competitive Electricity Provider to Distribution Company, or vice versa, for each business function carried out on a Distribution Company account.

2. The N1 loop at position 040 is used to identify the transaction sender and receiver.

3. The third N1 loop in the Headers section is used to pass mailing address information, and is mandatory on a Successful Enrollment Response (814-4) returned from the Distribution Company to the CEP.

4. The LIN loop is used to describe the account-specific information for the transaction set, including the appropriate codes indicating the action required.

5. The Completion Status/Reject Code passed in REF030 element REF03 can contain up to 10 different codes of three characters each strung together. See ME EBT Document, Appendix B for further clarification of the codes.

6. The combination of the BGN01, ASI01 and ASI02 indicate what transaction set is being passed and what it should be used for.

Transaction Set	Detail Rec. Ind.	BGN01	ASI01	ASI02
814-1	E	13	7	021
814-2	C	13	7	001
814-3	C	13	7	001
814-4	E	6	WQ	021
814-5	M	14	27	025
814-6	X	11	U	021
814-7	D	6	7	024
814-8	D	13	7	024
814-9	F	6	V	024
814-10	H	13	7	066

1. The NM1 loop is used to describe the services associated with the account identified in the LIN loop.

    a) On completion of a successful enrollment by the Distribution Company, the Distribution Company will return a Successful Enrollment Response (814-4) which will include all of a Customer's services enrolled using either the CEP's rate indicated in the Enroll transaction or a default rate agreed upon by both the Distribution Company and CEP for that service.

    b) When sending a Change Enrollment Detail (814-2 & 814-3) transaction, a reason for change will be sent and all services must be sent via the NM1 loop. This includes services to which changes are being made, as well as those which are to remain the same.

8. The DTM040 segment is passed only on Customer Drop (814-7), Supplier Drop (814-8) and Drop Date Confirmation (814-9), and is used to indicate to requested off-cycle drop/read date (814-7 & 814-8), or the confirmed off-cycle reading date (814-9).

<u>Transaction Best Practices</u>

Definitions for Data Elements 128 (REF01), 306 (ASI01), and 875 (ASI02)

To accommodate the identification requirements necessitated by the restructuring of the electric utility industry, the UIG has developed its own definitions for the qualifiers and codes found in data elements 128, 306, and 875.

Transaction Set Layout

Heading:

	Pos. No.	Seg. ID	Name	Req. Des.	Max. Use	Loop Repeat	Notes & Comments
Must Use	010	ST	Transaction Set Header	M	1		
Must Use	020	BGN	Beginning Segment	M	1		6
			LOOP ID - N1			1	2
Must Use	040	N1	Distribution Company	O	1		
			LOOP ID - N1			1	2
Must Use	040	N1	Supplier	O	1		
			LOOP ID - N1			1	3
	060	N3	Address Information - Bill to	O	1		
	060	N4	Geographic Location - Bill to	O	1		

Detail:

	Pos. No.	Seg. ID	Name	Req. Des.	Max. Use	Loop Repeat	Notes & Comments
			LOOP ID – LIN			1	4
Must Use	010	LIN	Item Identification	O	1		
Must Use	020	ASI	Action or Status Indicator	O	1		6
Must Use	030	REF	Distribution Co Account Number	O	1		
Must Use	030	REF	Supplier Account Number	O	1		
	030	REF	Reason for Change REF01	O	1	>1	
Must Use	030	REF	Billing Option	O	1		
Must Use	030	REF	Read Cycle	O	1		
	030	REF	Old Distribution Account Number	O	1		
	030	REF	Completion Status/Reject Reason	O	1		5
	040	DTM	Effective Date of Service	O	1		
	040	DTM	Off-cycle Read Date	O	1		
	060	AMT	Sales Tax Exempt	O	1		
			LOOP ID - NM1			>1	7
Must Use	080	NM1	Individual or Organizational Name	O	1		
	130	REF	Type of Service Indicator	O	1		
	130	REF	Sales Tax Indicator	O	1		
	130	REF	Current Service Identifier	O	1		
	130	REF	Old Service ID	O	1		
	130	REF	Supplier Rate Code	O	1		
	130	REF	Distribution Co Rate Code	O	1		
	130	REF	Reject Reason	O	1		

Summary:

	Pos. No.	Seg. ID	Name	Req. Des.	Max. Use	Loop Repeat	Notes & Comments
Must Use	150	SE	Transaction Set Trailer	M	1		

Segment: **ST** **Transaction Set Header**

Position: 010
Loop:
Level: Heading
Usage: Must Use
Max Use: 1
Purpose: To indicate the start of a transaction set and to assign a control number
Comments:

Data Element Summary

	Ref. Des. Attributes	Data Elements	Name		
M/U	ST01	143	**Transaction Set Identifier Code**	M	ID 3/3
			Code uniquely identifying a Transaction Set		
			814 – General Request, Response, or Confirmation		
M/U	ST02	329	**Transaction Set Control Number**	M	AN 4/9
			Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set		
			Unique number generated by the sender's translator		

Segment: **BGN** Beginning Segment

Position: 020
Loop:
Level: Heading:
Usage: Must Use
Max Use: 1
Purpose: To indicate the beginning of a transaction set
Comments:

Data Element Summary

	Ref. Des. Attributes	Data Elements	Name		
M/U	BGN01	353	**Transaction Set Purpose Code**	M	ID 2/2
			Code identifying the purpose of the transaction set.		
			06 – Confirmation Confirms the receipt of the request, action on the requested service is pending. 11 – Response Signifies that the requested service will be addressed as described in this transaction. 13 – Request 14 – Advance Notification		
M.U	BGN02	127	**Reference Identification**	M	AN 1/30
			Reference information as defined for a particular transaction set or as specified by the Reference Identification Qualifier		
			Unique Tracking Identification Number assigned by the Senders application interface		
M/U	BGN03	373	**Date**	M	DT 8/8
			Date (CCYYMMDD)		
			File Creation Date		

Segment: **N1** Distribution Company

Position: 040
Loop: N1
Level: Heading:
Usage: Must Use
Max Use: 1
Purpose: To identify a party by type of organization, name, and code
Comments

Data Element Summary

M/U	Ref. Des. Attributes	Data Elements	Name		
M/U	N101	98	**Entity Identifier Code** Code Identifying an organizational entity, a physical location, property or an individual	M	ID 2/3
			8S – Consumer Service Provider (Distribution Company)		
M/U	N103	66	**Identification Code Qualifier** Code designating the system/method of code structure used for Identification Code (67)	X	ID 1/2
			1 – DUNS Number (Dun & Bradstreet)		
M/U	N104	67	**Identification Code** Code identifying a party or other code	X	AN 2/80
			Distribution Company DUNS Number		

Segment: # N1 Supplier

Position: 040
Loop: N1
Level: Heading:
Usage: Must Use
Max Use: 1
Purpose: To identify a party by type of organization, name, and code
Comments: Element N104 requires CEP DUNS Number plus a four digit qualifier. This qualifier is used to identify CEP's with multiple load asset numbers.

Data Element Summary

M/U	Ref. Des. Attributes	Data Elements	Name		
M/U	N101	98	**Entity Identifier Code** Code Identifying an organizational entity, a physical location, property or an individual	M	ID 2/3
			SJ – Service Provider (Supplier)		
M/U	N103	66	**Identification Code Qualifier** Code designating the system/method of code structure used for Identification Code (67)	X	ID 1/2
			9 – DUNS Number (Dun & Bradstreet) plus four digit qualifier		
M/U	N104	67	**Identification Code** Code identifying a party or other code	X	AN 2/80
			Supplier DUNS Number plus four digit qualifier		

Segment: **N1** Bill to Identifier

Position: 040
Loop: N1
Level: Heading:
Usage: Must Use
Max Use: 1
Purpose: To identify a party by type of organization, name, and code
Comments Used only as a place holder to start this N1 loop.

Data Element Summary

M/U	Ref. Des. Attributes	Data Elements	Name		
M/U	N101	98	**Entity Identifier Code** Code identifying an organizational entity, a physical location, property or individual	M	ID 2/3
			BT – Bill-To Party Used to identify a billing address for the customer associated with the account identified in the LIN segment.		
M/U	N102	93	**Name** Free form name	X	AN 1/60
			NV – No Value		

Segment: **N3** Address Information

Position:	060
Loop:	N1
Level:	Heading:
Usage:	Optional
Max Use:	2
Purpose:	To specify the location of the named party
Comments:	Mandatory for successful enrollment 814-4. Optional for 814-3 Change Enrollment Detail.

Data Element Summary

	Ref. Des. Attributes	Data Elements	Name		
M/U	**N301**	**166**	**Address Information**	**M**	**AN 1/55**
			Bill-To Address		
	N302	**166**	**Address Information**	**M**	**AN 1/55**
			Additional Address Information		

Segment: **N4** Geographic Information

Position:	070
Loop:	N1
Level:	Heading:
Usage:	Optional
Max Use:	1
Purpose:	
Comments:	Mandatory for successful enrollment 814-4. Optional for 814-3 Change Enrollment Detail.

Data Element Summary

M/U	Ref. Des. Attributes	Data Elements	Name		
M/U	N401	19	**City Name** Free form text for city name	M	AN 2/30
			Bill-To City		
M/U	N402	156	**State or Province Code** Code (Standard State/Province) as defined by appropriate government agency	M	ID 2/2
			Bill-To State		
M/U	N403	116	**Postal Code** Code defining international postal zone code excluding punctuation and blanks (zip code for United States)	M	ID 3/15
			Bill-To Postal Code		
M/U	N404	26	**Country Code** Code Identifying the country	M	ID 2/3
			Bill-To Country		

Segment: **LIN** Item Identification

Position:	010
Loop:	LIN
Level:	Detail:
Usage:	Must Use
Max Use:	1
Purpose:	To specify basic item identification data
Comments:	If requesting Historical Data must use LIN04 and LIN05

Data Element Summary

M/U	Ref. Des. Attributes	Data Elements	Name		
M/U	LIN01	350	**Assigned Identification** Alphanumeric characters assigned for differentiation within a transaction set	M	AN 1/20
			Unique sequential number for each line item within this transaction set		
M/U	LIN02	235	**Product/Service ID Qualifier** Code identifying the type/source of the descriptive number used in Product/Service ID (234)	M	ID 2/2
			SH – Service Requested SV – Service Rendered		
M/U	LIN03	234	**Product/Service ID** Identifying number for a product or service	M	AN 1/48
			EL – Electric Service		
M/U	LIN04	235	**Product/Service ID Qualifier** Code identifying the type/source of the descriptive number used in Product/Service ID (234)	M	ID 2/2
			SH – Service Requested		
M/U	LIN03	234	**Product/Service ID** Identifying number for a product or service	M	AN 1/48
			HU – Historical Usage		

Segment: # ASI Action or Status Indicator

Position:	020
Loop:	LIN
Level:	Detail:
Usage:	Must Use
Max Use:	1
Purpose:	To indicate the action to be taken with the information provided or the status of the entity described.
Comments:	Identifies the action to be taken or the status of a requested action for the service identified in the LIN segment. Status Reason Codes are conveyed in the ref segment (position 030) rather than in the ASI03, to allow for multiple status reasons.

Data Element Summary

M/U	Ref. Des. Attributes	Data Elements	Name		
M/U	ASI01	306	**Action Code**	M	ID 1/2

Code indicating type of action

6 – Receive
7 – Request
(Enroll Customer, Supplier Drops Customer, Customer Drops Supplier, Change Enrollment Detail, Historical Usage Request)
27 – Moved – Follow-up
(Seamless move within Distribution Company service territory)
A4 – Pending, In process
C – Canceled
F – Final
TD – Temporarily Deny
U – Reject (Error Response)
V – Respond (Confirmed Drop Date)
WQ – Accept (Successful Enrollment)

M/U	ASI02	875	**Maintenance Type Code**	M	ID 3/3

Code identifying the specific type of item maintenance.

001 – Change
(Change enrollment detail, Change error response)
002 – Delete
021 – Addition (used when requesting or confirming new service.
022 – Change in status
024 – Cancellation or termination
(Suppler drops customer, Customer drops Supplier, Confirm drop date, Drop Error Response)
025 – Reinstatement (To place in force again without the normal probationary or service period)
(Customer Move)
066 – Status Request
(Historical Usage Request, Historical Usage Error Response)
029 - Inquiry

Segment: **REF** Distribution Company Account Number

Position: 030
Loop: LIN
Level: Detail:
Usage: Must Use
Max Use: 1
Purpose: To specify identifying information
Comments:

Data Element Summary

	Ref. Des. Attributes	Data Elements	Name		
M/U	REF01	128	**Reference Identification Qualifier**	M	ID 2/3
			Code Qualifying the Reference Identification		
			12 – Billing Account		
M/U	REF02	127	**Reference Identification**	M	AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the reference Identification Qualifier.		
			Distribution Company Account Number		

Segment: **REF** Supplier Account

Position:	030
Loop:	LIN
Level:	Detail:
Usage:	Must Use
Max Use:	1
Purpose:	To specify identifying information
Comments:	If being used in an 814-10, CEP must pass at least a dummy account number.

Data Element Summary

	Ref. Des. Attributes	Data Elements	Name		
M/U	REF01	128	**Reference Identification Qualifier**	M	ID 2/3
			Code Qualifying the Reference Identification		
			11 – Account Number		
M/U	REF02	127	**Reference Identification**	M	AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the reference Identification Qualifier.		
			Supplier Account Number		

Segment: **REF – Reason for Change**
Position: 030
Loop:
Level: Detail:
Usage: Optional
Max Use: 1
Purpose: To indicate the start of a transaction set and to assign a control number
Comments: Used only on Change Enrollment Detail – Supplier Data (814-2) and Change Enrollment Detail – Distribution Co. Data (814-3).

Data Element Summary

	Ref. Des. Attributes	Data Elements	Name		
M/U	**REF01**	**128**	**Reference Identification Qualifier**	**M**	**ID 2/3**
			Code qualifying the Reference Identification		
			TD – Reason for Change		
M/U	**REF02**	**127**	**Reference Identification**	**X**	**AN 1/30**
			Reference information as defined for a particular transaction set or as specified by the Reference Identification Qualifier.		

Code	Description
AMTDP	Change Percentage of Service Tax Exempt
DTM007	Change Effective Date
DTM150	Change Service Period Start Date
DTM151	Change Service Period End Date
DTM243	Change Actual Complete Date
DTM245	Change Estimated Completion Date
DTM802	Change Date of Action
NM12C	Change Third Party Name/Address
NM185	Change Billing Party
NM18R	Change Name or Service Address
NM1BT	Change Bill-to Party Name/Address
NM1FE	Change Mailing Address
NM1PK	Change Party to Receive Copy Name/Address
NM1SJ	Change Energy Service Provider
PM02	Change Account Number
PM05	Change Account Number Qualifier
REF0B	Change ESP's License or Registration Number
REF12	Change Utility-assigned Account Number for the End Use Customer
REF5B	Change ESP-assigned Account Number for Utility
REF65	Change Meter Owner's Meter Read Cycle
REF9V	Change Payment Option
REFBF	Change Billing Cycle
REFBLT	Change Billing Type
REFH5	Change Renewable Energy Provider
REFK0	Change Approval Code
REFO8	Change New Premise Indicator
REFSPL	Change Point at which the Customer is Connected to Transmission Grid
REFSR	Change Service Relationship

REF03	**352**	**Description**	**X**	**AN 1/80**

A free-form description to clarify the related data
elements and their content.

Free Form Description

Segment: **REF** Billing Option

Position: 030
Loop: LIN
Level: Detail:
Usage: Must Use
Max Use: 1
Purpose: To specify identifying information
Comments:

Data Element Summary

	Ref. Des. Attributes	Data Elements	Name		
M/U	REF01	128	**Reference Identification Qualifier**	M	ID 2/3
			Code Qualifying the Reference Identification		
			BLT – Billing Type		
M/U	REF02	127	**Reference Identification**	M	AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the reference Identification Qualifier.		
			LDC – Distribution Company Bills (Consolidated)		
			DUAL – Both parties bill their own portions (Separate)		

Segment: **REF** Read Cycle

Position: 030
Loop: LIN
Level: Detail:
Usage: Must Use
Max Use: 1
Purpose: To specify identifying information
Comments:

Data Element Summary

	Ref. Des. Attributes	Data Elements	Name		
M/U	REF01	128	**Reference Identification Qualifier**	M	ID 2/3
			Code Qualifying the Reference Identification		
			BF – Read Identification		
M/U	REF02	127	**Reference Identification**	M	AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the reference Identification Qualifier.		
			Read Cycle (N/V sent if no valid read cycle available)		

Segment: **REF** Old Distribution Company Account Number

Position: 030
Loop: LIN
Level: Detail:
Usage: Optional
Max Use: 1
Purpose: To specify identifying information
Comments:

Data Element Summary

	Ref. Des. Attributes	Data Elements	Name		
M/U	REF01	128	**Reference Identification Qualifier**	M	ID 2/3
			Code Qualifying the Reference Identification		
			45 – Old Account Number		
M/U	REF02	127	**Reference Identification**	M	AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the reference Identification Qualifier.		
			Old Distribution Company Account Number		

Segment: **REF** Completion Status/Reject Reason

Position:	030
Loop:	LIN
Level:	Detail:
Usage:	Must Use
Max Use:	1
Purpose:	To specify identifying information
Comments:	Mandatory use for Error transaction
	Maximum of 10 codes - 3 digits each

Data Element Summary

M/U	Ref. Des. Attributes	Data Elements	Name		
M/U	REF01	128	**Reference Identification Qualifier** Code Qualifying the Reference Identification	M	ID 2/3
			7G – Data Quality Rejection Reason		
M/U	REF02	127	**Reference Identification** Reference information as defined for a particular Transaction Set or as specified by the reference Identification Qualifier.	M	AN 1/30
			A13 – Other		
M/U	REF03	352	**Description** A free form description to clarify the related data elements and their content. Used to further describe the status reason code sent in REF02.	M	AN 1/80
			Completion Status/Reject Reason Codes (See ME EBT Document, Appendix B)		

Segment: **DTM** Date/Time Reference - Effective Date of Service

Position:	040
Loop:	LIN
Level:	Detail
Usage:	Optional
Max Use:	1
Purpose:	To specify pertinent dates and times
Comments:	This will be used for all utility outbound 814 transactions.
	Maine will not use DTM02, DMT03, DTM04.

Data Element Summary

	Ref. Des. Attributes	Data Elements	Name		
M/U	DTM01	374	**Date/Time Qualifier** Code specifying type of date or time, or both date and time	M	ID 3/3
			007 – Effective Date		
M/U	DTM05	1250	**Date Time Period Format Qualifier** Code indicating the date format, time format or date and time format	X	ID 2/3
			D8 – Date Expressed as CCYYMMDD		
M/U	DTM06	1251	**Date Time Period** Expression of a date, time, or range of dates, times or dates and times	X	AN 1/35
			Effective Date		

Segment: **DTM** Date/Time Reference   - Off-cycle Read Date

Position:	040
Loop:	LIN
Level:	Detail
Usage:	Optional
Max Use:	1
Purpose:	To specify pertinent dates and times
Comments:	Maine will not use DTM02, DTM03, DMT04
	This will be used in 814-8 Supplier Drops Customer

Data Element Summary

	Ref. Des. Attributes	Data Elements	Name		
M/U	DTM01	374	**Date/Time Qualifier** Code specifying type of date or time, or both date and time	M	ID 3/3
			MRR – Meter Reading (Off-cycle read date) 245 – Estimated Completion (Prorated) (Used when BGN01 is 11)		
M/U	DTM05	1250	**Date Time Period Format Qualifier** Code indicating the date format, time format or date and time format	X	ID 2/3
			D8 – Date Expressed as CCYYMMDD		
M/U	DTM06	1251	**Date Time Period** Expression of a date, time, or range of dates, times or dates and times	X	AN 1/35
			Off-cycle reading/prorated date		

Segment: **AMT** **Monetary Amount - Sales Tax Exempt**

Position: 060
Loop: LIN
Level: Detail
Usage: Must Use
Max Use: 1
Purpose: To indicate the total monetary amount
Comments:

Data Element Summary

M/U	Ref. Des. Attributes	Data Elements	Name		
M/U	AMT01	522	**Amount Qualifier Code**	M	ID 1/3
			DP – Exemption		
			T – Tax (100%)		
M/U	AMT02	782	**Monetary Amount**	M	R 1/18
			Monetary Amount		
			1 – No sales tax (This code is used when the customer is either 100% taxable or 100% exempt)		

Segment: **NM1** Individual or Organization Name

Position:	080
Loop:	NM1
Level:	Detail:
Usage:	Must Use
Max Use:	>1
Purpose:	To supply the full name of an individual or organization entity
Comments:	Used only as a place holder to start this NM1 loop.

Data Element Summary

	Ref. Des. Attributes	Data Elements	Name		
M/U	NM101	98	**Entity Identifier Code** Code identifying an organizational entity, a physical location, property or an individual	M	ID 2/3
			MQ – Meter Location		
M/U	NM102	1065	**Entity Type Qualifier** Code Qualifying the type of entity	M	ID 1/1
			3 – Unknown		

Segment: **REF** Type of Service Indicator

Position:	130
Loop:	NM1
Level:	Detail:
Usage:	Optional
Max Use:	1
Purpose:	To specify identifying information
Comments:	

Data Element Summary

	Ref. Des. Attributes	Data Elements	Name		
M/U	REF01	128	**Reference Identification Qualifier**	M	ID 2/3
			Code Qualifying the Reference Identification		
			PRT – Product Type		
M/U	REF02	127	**Reference Identification**	M	AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the reference Identification Qualifier.		
			C – Combined Service (Multiple Meters)		
			D – Metered Service Demand & KWH		
			E – Metered Service KWH		
			H – Controlled Hot Water		
			L – Lighting Service		
			N – Non-Metered Service		
			T – Metered Service TOU		
			P – Pending Account		
			A – Apply to All Services		

Segment: **REF** Sales Tax Indicator

Position:	130
Loop:	NM1
Level:	Summary:
Usage:	Optional
Max Use:	1
Purpose:	To specify identifying information
Comments:	Optional for Enroll Customer transaction
	Optional for Change Enrollment Detail Transaction
	Mandatory for Successful Enrollment transaction
	Mandatory for Customer Move transaction

Data Element Summary

	Ref. Des. Attributes	Data Elements	Name		
M/U	REF01	128	**Reference Identification Qualifier**	M	ID 2/3
			Code Qualifying the Reference Identification		
			TX – Tax Exempt Number		
M/U	REF02	127	**Reference Identification**	M	AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the reference Identification Qualifier.		
			Y – Sales Tax Applicable		
			N – No Sales Tax Applicable		
			M – Manufacturing Sales Tax Applicable		
			U - Unavailable		

Segment: **REF** Current Service Identifier

Position: 130
Loop: NM1
Level: Detail:
Usage: Must Use
Max Use: 1
Purpose: To specify identifying information
Comments:

Data Element Summary

M/U	Ref. Des. Attributes	Data Elements	Name		
M/U	REF01	128	**Reference Identification Qualifier** Code Qualifying the Reference Identification	M	ID 2/3
			MG – Meter Number SC – Service Indicator		
M/U	REF02	127	**Reference Identification** Reference information as defined for a particular Transaction Set or as specified by the reference Identification Qualifier.	M	AN 1/30
			If REF01 contains MG, REF02 must contain a meter number. If REF01 contains SC, REF02 must contain a 'U' and REF03 will contain a description of the unmetered rate plan.		
M/U	REF03	352	**Description** A free form description to clarify the related data elements and their content.	X	AN 1/80
			Unmetered rate plan description		

Segment: **REF** Old Service Identifier

Position:	130
Loop:	NM1
Level:	Detail:
Usage:	Optional
Max Use:	1
Purpose:	To specify identifying information
Comments:	

Data Element Summary

M/U	Ref. Des. Attributes	Data Elements	Name		
M/U	REF01	128	**Reference Identification Qualifier** Code Qualifying the Reference Identification	M	ID 2/3
			46 – Meter Number SC – Service Indicator		
M/U	REF02	127	**Reference Identification** Reference information as defined for a particular Transaction Set or as specified by the reference Identification Qualifier.	M	AN 1/30
			If REF01 contains MG, REF02 must contain the old meter number. If REF01 contains SC, REF02 must contain a 'U' and REF03 will contain a description of the old unmetered rate plan.		
M/U	REF03	352	**Description** A free form description to clarify the related data elements and their content.	X	AN 1/80
			Old Unmetered rate plan description		

Segment: **REF** Supplier Rate Code

Position:	130
Loop:	NM1
Level:	Detail:
Usage:	Optional (Mandatory for consolidated billing)
Max Use:	1
Purpose:	To specify identifying information
Comments:	Mandatory for Consolidated Billing

Data Element Summary

	Ref. Des. Attributes	Data Elements	Name		
M/U	REF01	128	**Reference Identification Qualifier**	M	ID 2/3
			Code Qualifying the Reference Identification		
			RB – Rate Code Number		
M/U	REF02	127	**Reference Identification**	M	AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the reference Identification Qualifier.		
			Supplier Rate Code		

Segment: **REF** Distribution Company Rate Code

Position: 130
Loop: NM1
Level: Detail:
Usage: Optional
Max Use: 1
Purpose: To specify identifying information
Comments: Mandatory for 814-3, 814-4, 814-5

Data Element Summary

	Ref. Des. Attributes	Data Elements	Name		
M/U	REF01	128	**Reference Identification Qualifier**	M	ID 2/3
			Code Qualifying the Reference Identification		
			NH – Rate Card Number		
M/U	REF02	127	**Reference Identification**	M	AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the reference Identification Qualifier.		
			Distribution Company Rate Code (NV is not available)		

Segment:	**REF** Reject Reason

Position:	130
Loop:	NM1
Level:	Detail:
Usage:	Optional
Max Use:	1
Purpose:	To specify identifying information
Comments:	Mandatory for 814-3, 814-4, 814-5

Data Element Summary

M/U	Ref. Des. Attributes	Data Elements	Name		
M/U	REF01	128	**Reference Identification Qualifier** Code Qualifying the Reference Identification	M	ID 2/3
			7G – Data Quality Rejection Reason		
M/U	REF02	127	**Reference Identification** Reference information as defined for a particular Transaction Set or as specified by the reference Identification Qualifier.	M	AN 1/30
			A13 – Other		
M/U	REF03	352	**Description** A free form description to clarify the related data elements and their content. Used to further describe the status reason code sent in REF02.	M	AN 1/80
			Completion Status/Reject Reason Codes (See ME EBT Document, Appendix B)		

Segment: **SE** **Transaction Set Trailer**

Position: 150
Loop:
Level: Summary:
Usage: Must Use
Max Use: 1
Purpose: To indicate the end of the transaction set and provide the count of the transmitted segments (including the beginning (ST) and ending (SE) segments)

Comments:

Data Element Summary

	Ref. Des. Attributes	Data Elements	Name		
M/U	SE01	96	**Number of Included Segments**	M	N0 1/10
			Total number of segments included in a transaction set including ST and SE segments		
			Translator will fill this field		
M/U	SE02	329	**Transaction Set Control Number**	M	AN 4/9
			Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set		
			Same as ST02		

820 Payment Order/
Remittance Advice
Ver/Rel 004010

Functional Group ID=RA

Introduction

This transaction set contains the format and establishes the data contents of the Payment Order/Remittance Advice Transaction Set (820) for use within the context of an Electronic Data Interchange (EDI) environment. This transaction set will be used to send a remittance advice. The remittance advice will go directly from the Distribution Company to the competitive energy provider.

Business Function

Customer Payments/Payments Corrections (820-1)

Transaction Set Notes

1. This transaction is not used for Standard Offer Providers. Settlement to Standard Offer Providers will be once a month.

Transaction Best Practices

Use of Element RMR08
RMR08 may be used to apply an adjustment to the current payment or to a previous payment.

If the adjustment is to the current payment (for example, to show that invoiced taxes will not be paid), the amount in RMR04 is net of the amount in RMR08. In the example, RMR04 equals RMR05 minus RMR06 minus RMR08. If the adjustment is to a previous payment (for example, when the customer's check was returned for insufficient funds), the amount in RMR04 will be the same as the amount in RMR08.

Transaction Set Layout:

Heading:

	Pos. No.	Seg. ID	Name	Req. Des.	Max. Use	Loop Repeat	Notes & Comments
Must Use	010	ST	Transaction Set Header	M	1		
Must Use	020	BPR	Beginning Segment for Payment Order/Remittance Advice	M	1		
Must Use	050	REF	Tracking Number	O	1		
Must Use	060	DTM	File Creation Date	O	1		
			LOOP ID - N1			1	
Must Use	070	N1	Distribution Company	O	1		
			LOOP ID - N1			1	
Must Use	070	N1	Supplier	O	1		

Detail:

	Pos. No.	Seg. ID	Name	Req. Des.	Max. Use	Loop Repeat	Notes & Comments
			LOOP ID – ENT			>1	
Must Use	010	ENT	Distribution Company Account Number	O	1		
			LOOP ID – RMR			1	
Must Use	150	RMR	Remittance Advice Accounts Receivable Open Item Reference	O	1		
Must Use	170	REF	Supplier Account	O	1		
Must Use	180	DTM	Posting Date	O	1		

Summary:

	Pos. No.	Seg. ID	Name	Req. Des.	Max. Use	Loop Repeat	Notes & Comments
Must Use	010	SE	Transaction Set Trailer	M	1		

Segment: **ST Transaction Set Header**
Position: 010
Loop:
Level: Heading
Usage: Must Use
Max Use: 1
Purpose: To indicate the start of a transaction set and to assign a
                  control number
Comments:

Data Element Summary

	Ref. Des. Attributes	Data Elements	Name		
M/U	ST01	143	**Transaction Set Identifier Code**	M	ID 3/3
			Code uniquely identifying a Transaction Set		
			820 Payment/ Remittance Order		
M/U	ST02	329	**Transaction Set Control Number**	M	AN 4/9
			Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set		
			Unique number assigned by Sender's Translator		

Segment:	**BPR Beginning Segment for Payment Order/Remittance Advice**				
Position:	020				
Loop:					
Level:	Heading				
Usage:	Must Use				
Max Use:	1				
Purpose:	To indicate the beginning of a Payment Order/Remittance Advice Transaction Set and total payment amount, or to enable related transfer of funds and/or information from payer to payee to occur				

Comments:
1. BPR02 contains the absolute value of the algebraic sum of all RMR04 and RMR08 segments except for RMR08 when RMR07 contains 'BD.'
2. If the algebraic sum calculated for BPR02 contains a negative value, BPR03 will contain 'D.' Otherwise, BPR03 will contain 'C.'

Data Element Summary

	Ref. Des. Attributes	Data Elements	Name		
M/U	BPR01	305	**Transaction Handling Code**	M	ID 1/2
			Code designating the action to be taken by all parties		
			I Remittance Information Only		
M/U	BPR02	782	**Monetary Amount**	M	R 1/18
			Monetary amount		
			Must always be a positive amount		
M/U	BPR03	478	**Credit/Debit Flag Code**	M	ID 1/1
			Code indicating whether amount is a credit or debit		
			C Credit - Due CEP		
			D Debit - Due Distribution Company		
M/U	BPR04	591	**Payment Method Code**	M	ID 3/3
			Code identifying the method for the movement of payment instructions		
			ACH Automated Clearing House		
	BPR16	373	**Date**	O	DT 8/8
			Date (CCYYMMDD)		
			Payer's intended settlement date		

Segment: **REF Reference Identification – Tracking Number**
Position: 050
Loop:
Level: Heading
Usage: Must Use
Max Use: 1
Purpose: To specify identifying information
Comments:

Data Element Summary

M/U	Ref. Des. Attributes	Data Elements	Name		
M/U	REF01	128	**Reference Identification Qualifier**	M	ID 2/3
			Code identifying the Reference Identification		
			TN Transaction Reference Number		
M/U	REF02	127	**Reference Identification**	X	AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier		
			Unique Tracking Number Generated and maintained by sending institution. Will be returned by receiving institution for either Validation Confirmation or Error Response		

Segment: **DTM Date/Time Reference – File Creation Date**
Position: 060
Loop:
Level: Heading
Usage: Must Use
Max Use: 1
Purpose: To specify pertinent dates and times
Comments:

Data Element Summary

M/U	Ref. Des. Attributes	Data Elements	Name		
M/U	DTM01	374	**Date/Time Qualifier**	M	ID 3/3
			Code specifying type of date or time, or both date and time		
			097 Transaction Creation		
	M/U	DTM05	1250	**Date/Time Period Format Qualifier**	X	ID 2/3
			Code indicating the date format, time format, or date and time format		
			D8 Date Expressed in Format CCYYMMDD		
M/U	DTM06	1251	**Date Time Period**	X	AN 1/35
			Expression of a date, a time, or range of dates, times or dates and times.		
			File Creation Date		

Segment: **N1 Name - Distribution Company**
Position: 070
Loop: N1
Level: Heading
Usage: Must Use
Max Use: 1
Purpose: To identify a party by type of organization, name, and code
Comments:

Data Element Summary

	Ref. Des. Attributes	Data Elements	Name		
M/U	N101	98	**Entity Identifier Code**	M	ID 2/3
			Code identifying an organizational entity, a physical location, property or an individual		
			8S Consumer Service Provider (Distribution Company)		
	N102	93	**Name**	X	AN 1/60
			Free-form name		
			Distribution Company Name		
M/U	N103	66	**Identification Code Qualifier**	X	ID 1/2
			Code designating the system/method of code structure used for Identification Code (67)		
			1 D-U-N-S Number, Dun & Bradstreet		
M/U	N104	67	**Identification Code**	X	AN 2/80
			Code identifying a party or other code		
			Distribution Company Dun & Bradstreet Number		

Segment:	**N1 Name - Supplier**				
Position:	070				
Loop:	N1				
Level:	Heading				
Usage:	Must Use				
Max Use:	1				
Purpose:	To identify a party by type of organization, name, and code				
Comments:	This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.				

Data Element Summary

M/U	Ref. Des. Attributes	Data Elements	Name		
M/U	N101	98	**Entity Identifier Code** Code identifying an organizational entity, a physical location, property or an individual	M	ID 2/3
			SJ Service Provider		
	N102	93	**Name** Free-form name	X	AN 1/60
			Supplier Company Name		
M/U	N103	66	**Identification Code Qualifier** Code designating the system/method of code structure used for Identification Code (67)	X	ID 1/2
			9 D-U-N-S Number, Dun & Bradstreet plus four		
M/U	N104	67	**Identification Code** Code identifying a party or other code	X	AN 2/80
			Supplier Company Dun & Bradstreet Number plus four		

Segment: **ENT Entity - Distribution Company Account Number**
Position: 010
Loop: ENT
Level: Detail
Usage: Must Use
Max Use: >1
Purpose: Place Holder
Comments:

Data Element Summary

M/U	Ref. Des. Attributes	Data Elements	Name		
M/U	ENT01	554	**Assigned Number**	O	N0 1/6
			Number assigned for differentiation within a transaction set		

Segment: **RMR Remittance Advice Accounts Receivable Open Item**
Reference

Position:	150
Loop:	RMR
Level:	Detail
Usage:	Must Use
Max Use:	1
Purpose:	To specify the accounts receivable open item(s) to be included in the cash application and to convey the appropriate detail

Comments: **1.** BPR02 contains the absolute value of the algebraic sum of all RMR04 and RMR08 segments except for RMR08 when RMR07 contains 'BD.'

               2. If the algebraic sum calculated for BPR02 contains a negative value, BPR03 will contain 'D.' Otherwise, BPR03 will contain 'C.'

Data Element Summary

	Ref. Des. Attributes	Data Elements	Name	M	
M/U	RMR01	128	**Reference Identification Qualifier**		ID 2/3
			Code qualifying the Reference Identification		
			12 Account Number		
M/U	RMR02	127	**Reference Identification**		AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier		
			Distribution Company Account Number		
M/U	RMR03	482	**Payment Action Code**		ID 2/2
			Code specifying the accounts receivable open item(s), if any, to be included in the cash application.		
			AJ Adjustment		
			PO Payment on Account		
M/U	RMR04	782	**Monetary Amount**		R 1/18
			Monetary amount		
			Amount paid on account		
	RMR07	426	**Adjustment Reason Code**		ID 2/2
			Code indicating reason for debit or credit memo or adjustment to invoice, debit or credit memo, or payment		
			D1 TRANSFER BETWEEN ACCOUNTS		
			48 BAD CHECK/SERVICE CHARGE		
			FI ARREARS INTEREST/LATE INTEREST PAID		
			55 SALES TAX/TAX DEDUCTED		
			CS ADJUSTMENT		
			BD SUPPLIER WRITE-OFF/BAD DEBT ADJUSTMENT		
			IP LOW INCOME DISBURSEMENT/INCENTIVE PREMIUM PAYMENT		
	RMR08	782	**Monetary Amount**		R 1/18
			Monetary amount		
			Adjustment Amount		
			This amount should be signed if negative. For an adjustment to this current payment, the amount in RMR04 is the result after the adjustment was applied,		

i.e., the net of the adjustment. For an adjustment to a previous payment, the amount in RMR04 is to be the same in RMR08.

Segment: **REF Reference Identification – Supplier Account**
Position: 170
Loop: RMR
Level: Detail
Usage: Must Use
Max Use: 1
Purpose: To specify identifying information
Comments: This segment is used to provide additional information, **other than the invoice number or end use customer account number.** This segment is not to be used to identify the item or account to which the cash payment is to be applied; that information is to be sent in RMR02.

Data Element Summary

	Ref. Des. Attributes	Data Elements	Name		
M/U	REF01	128	**Reference Identification Qualifier** Code qualifying the Reference Identification	M	ID 2/3
			11 Account Number		
M/U	REF02	127	**Reference Identification** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X	AN 1/30
			Supplier Account Number		

Segment: **DTM Date/Time Reference - Posting Date**
Position: 180
Loop: RMR
Level: Detail
Usage: Must Use
Max Use: 1
Purpose: To specify pertinent dates and times
Comments:

Data Element Summary

	Ref. Des. Attributes	Data Elements	Name		
M/U	DTM01	374	**Date/Time Qualifier**	M	ID 3/3
			Code specifying type of date or time, or both date and time		
			809 Posted		
M/U	DTM05	1250	**Date Time Period Format Qualifier**	X	ID 2/3
			Code indicating the date format, time format, or date and time format		
			D8 Date Expressed in Format CCYYMMDD		
M/U	DTM06	1251	**Date Time Period**	X	AN 1/35
			Expression of a date, a time, or range of dates, times or dates and times		
			Posting Date		

Segment:	**SE Transaction Set Trailer**		
Position:	010		
Loop:			
Level:	Summary		
Usage:	Must Use		
Max Use:	1		
Purpose:	To indicate the end of the transaction set and provide the count of the transmitted segments (including the beginning (ST) and ending (SE) segments)		
Comments:	**1** SE is the last segment of each transaction set.		

Data Element Summary

	Ref. Des. Attributes	Data Elements	Name		
M/U	SE01	96	**Number of Included Segments**	M	N0 1/10
			Total number of segments included in a transaction set including ST and SE segments		
M/U	SE02	329	**Transaction Set Control Number**	M	AN 4/9
			Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set		

824 Application Advice
Ver/Rel 004010

Functional Group ID=AG

Introduction

The transaction set can be used to provide the ability to report the results of an application system's data content edits of transaction sets. It is designed to accommodate the Competitive Energy Supplier for the business need of reporting errors back to the Distribution Company. The Application Advice should not be used in place of a transaction set designed as a specific response to another transaction set (e.g., purchase order acknowledgment sent in response to a purchase order).

Business Function

Error Response from Competitive Energy Supplier for non-814 Transactions   (824-1)

Transaction Set Notes

1.   The OTI loop is intended to provide a unique identification of the transaction set that is the subject of this application acknowledgment.

Transaction Best Practices

This transaction is used for the Competitive Energy Supplier to send back to the Distribution Company the error to a non-814 transaction set. One 824 is to be used for each error.

Transaction Set Layout

Heading:

	Pos. No.	Seg. ID	Name	Req. Des.	Max. Use	Loop Repeat	Notes & Comments
Must Use	010	ST	Transaction Set Header	M	1		
Must Use	020	BGN	Beginning Segment	M	1		
			LOOP ID – N1			1	
Must Use	030	N1	Supplier Identifier	O	1		
Must Use	070	REF	Supplier Acct Number	O	12		
			LOOP ID – N1			1	
Must Use	030	N1	Distribution Identifier	O	1		
Must Use	070	REF	Distribution Account Number	O	12		

Detail:

	Pos. No.	Seg. ID	Name	Req. Des.	Max. Use	Loop Repeat	Notes & Comments
			LOOP ID – OTI			1	
Must Use	010	OTI	Original Transaction Identification	M	1		1
Must Use	030	DTM	Original Transaction Date	M	1		
			LOOP ID – TED			1	
Must Use	070	TED	Technical Error Description	M	1		

Summary:

	Pos. No.	Seg. ID	Name	Req. Des.	Max. Use	Loop Repeat	Notes & Comments
Must Use	090	SE	Transaction Set Trailer	M	1		

Segment: **ST Transaction Set Header**
Position: 010
Loop:
Level: Heading
Usage: Must Use
Max Use: 1
Purpose: To indicate the start of a transaction set and to assign a control number
Comments:

Data Element Summary

	Ref. Des. Attributes	Data Elements	Name		
M/U	ST01	143	**Transaction Set Identifier Code**	M	**ID 3/3**
			Code uniquely identifying a Transaction Set		
			824 Application Advice		
M/U	ST02	329	**Transaction Set Control Number**	M	**AN 4/9**
			Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set		
			Unique number assigned by Sender's Translator		

Segment: **BGN Beginning Segment**
Position: 020
Loop:
Level: Heading
Usage: Must Use
Max Use: 1
Purpose: To indicate the beginning of a transaction set
Comments:

Data Element Summary

M/U	Ref. Des. Attributes	Data Elements	Name		
M/U	BGN01	353	**Transaction Set Purpose Code**	M	ID 2/2
			Code identifying purpose of transaction set		
			11 Response		
			Signifies that the requested service will be addressed as described in this transaction		
M/U	BGN02	127	**Reference Identification**	M	AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier		
			A unique tracking identification number assigned by the originator of this transaction.		
M/U	BGN03	373	**Date**	M	DT 8/8
			Date expressed as CCYYMMDD		
			File creation date		

Segment: **N1 Name - Supplier**
Position: 030
Loop: N1
Level: Heading
Usage: Must Use
Max Use: 1
Purpose: To identify a party by type of organization, name, and code
Comments: To obtain this efficiency the "ID Code" (N104) must provide
a key to the table maintained by the transaction processing
party.

Data Element Summary

	Ref. Des. Attributes	Data Elements	Name		
M/U	N101	98	**Entity Identifier Code**	M	**ID 2/3**
			Code identifying an organizational entity, a physical location, property or an individual		
			SJ Supplier Identifier		
	N102	93	**Name**	X	**AN 1/60**
			Free-form name		
			Supplier Name		
M/U	N103	66	**Identification Code Qualifier**	X	**ID 1/2**
			Code designating the system/method of code structure used for Identification Code (67)		
			9 DUNS+4, DUNS Number with Four Character Suffix		
<u>M/U</u>	N104	67	**Identification Code**	X	**AN 2/80**
			Code Identifying a party or other code		
			Supplier DUNS number plus four		

Segment: **REF Reference Identification - Supplier Account Number**
Position: 070
Loop: N1
Level: Heading
Usage: Must Use
Max Use: 12
Purpose: To specify identifying information
Comments:

Data Element Summary

M/U	Ref. Des. Attributes	Data Elements	Name		
M/U	REF01	128	**Reference Identification Qualifier**	M	ID 2/3
			Code qualifying the Reference Identification		
			11 Account Number		
			Energy Service Provider-assigned account number for the end use customer		
<u>M/U</u>	REF02	127	**Reference Identification**	X	AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier		
			Supplier Account Number for end use customer		

Segment: **N1 Name – Distribution Company**
Position: 030
Loop: N1
Level: Heading
Usage: Must Use
Max Use: 1
Purpose: To identify a party by type of organization, name, and code
Comments: To obtain this efficiency the "ID Code" (N104) must provide
                 a key to the table maintained by the transaction processing
                 party.

Data Element Summary

	Ref. Des. Attributes	Data Elements	Name		
M/U	N101	98	**Entity Identifier Code**	M	ID 2/3
			Code identifying an organizational entity, a physical location, property or an individual		
			8S Distribution Company		
	N102	93	**Name**	X	AN 1/60
			Free-form name		
			Distribution Company Name		
M/U	N103	66	**Identification Code Qualifier**	X	ID 1/2
			Code designating the system/method of code structure used for Identification Code (67)		
			1 DUNS Number		
M/U	N104	67	**Identification Code**	X	AN 2/80
			Code Identifying a party or other code		
			Distribution Company DUNS number		

Segment: **REF Reference Identification - Distribution Company Account Number**

Position: 070
Loop: N1
Level: Heading
Usage: Must Use
Max Use: 12
Purpose: To specify identifying information
Comments:

Data Element Summary

	Ref. Des. Attributes	Data Elements	Name		
M/U	REF01	128	**Reference Identification Qualifier**	M	ID 2/3
			Code qualifying the Reference Identification		
			12 Billing Account		
			Account number under which billing is rendered		
			Distribution Company assigned account number for the end use customer		
<u>M/U</u>	REF02	127	**Reference Identification**	X	AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier		
			Distribution Company Account Number		

Segment: **OTI Original Transaction Identification**
Position: 010
Loop: OTI
Level: Detail
Usage: Must Use
Max Use: 1
Purpose: To identify the error within the transaction set and at which
level the results of the error are reported.
Comments:

Data Element Summary

M/U	Ref. Des. Attributes	Data Elements	Name		
M/U	OTI01	110	**Application Acknowledgment Code**	M	ID 1/2
			Code indicating the application system edit results of the business data		
			TR - Transaction Set Reject		
M/U	OTI02	128	**Reference Identification Qualifier**	M	ID 2/3
			Code qualifying the Reference Identification		
			TN -Transaction Reference Number		
M/U	OTI03	127	**Reference Identification**	M	AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier		
			Unique tracking number (from original transaction)		
<u>M/U</u>	OTI10	143	**Transaction Set Identifier Code**	O	ID 3/3
			Code uniquely identifying a Transaction Set		
			The EDI Transaction Set number of the transaction being responded to.		
			810 Usage/Billing		
			820 Payment / Remittance Advice		
			867 Customer Usage History		

Segment: **DTM Date/Time Reference**
Position: 030
Loop: OTI
Level: Detail
Usage: Must Use
Max Use: 1
Purpose: To identify the date of the original file.
Comments:

Data Element Summary

	Ref. Des. Attributes	Data Elements	Name		
M/U	**DTM01**	**374**	**Date/Time Qualifier**	**M**	**ID 3/3**
			Code specifying type of date and time, or both date and time.		
			703 Original Transaction Date		
M/U	**DTM05**	**1250**	**Date Time Period Format Qualifier**	**X**	**ID 2/3**
			Code indicating the date format, time format, or date and time format		
			D8 Date Expressed in Format CCYYMMDD		
M/U	**DTM06**	**1251**	**Date Time Period**	**X**	**AN 1/35**
			Original File Creation Date		

Segment: **TED Technical Error Description**
Position: 070
Loop: TED
Level: Detail
Usage: Must Use
Max Use: 1
Purpose: To identify the error and, if feasible, the erroneous segment,
              or data element, or both
Comments: TED02 will describe the error back to the Distribution
              Company.

Data Element Summary

	Ref. Des. Attributes	Data Elements	Name		
M/U	TED01	647	**Application Error Condition Code**	M	**ID 1/3**
			Code indicating application error condition		
			848 Incorrect Data		
<u>M/U</u>	TED02	3	**Free Form Message**	O	**AN 1/60**
			Free-form text		
			See Maine EBT Document, Appendix B for a complete list of Completion Status/Error Codes		

Segment: **SE Transaction Set Trailer**
Position: 090
Loop:
Level: Detail
Usage: Must Use
Max Use: 1
Purpose: To indicate the end of the transaction set and provide the
count of the transmitted segments (including the beginning
(ST) and ending (SE) segments)
Syntax Notes: **1** SE is the last segment of each transaction set.

Data Element Summary

M/U	Ref. Des. Attributes	Data Elements	Name		
M/U	SE01	96	**Number of Included Segments**	M	N0 1/10
			Total number of segments included in a transaction set including ST and SE segments		
M/U	SE02	329	**Transaction Set Control Number**	M	AN 4/9
			Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set		

867 Product Transfer
and Resale Report
Ver/Rel 004010

Functional Group ID=PT

Introduction

The transaction set can be used to: (1) report information about electrical service that has occurred for one customer location for as many as 12 prior months. Report to be issued by a Distribution company to Competitive Energy Providers.

Business Function

Customer Usage History (867-1)

Transaction Set Notes

1. When reporting for more than one service at a particular location the PTD loop will be used as many times as needed.   The PTD loop defines the service and the meter. Each QTY loop will contain a date to identify the register, usage period and the quantities being reported.

2. The MEA160 can be repeated up to 12 times per DTM per business practice.

Transaction Best Practices

Use of The PTD Segment
The PTD loop conveys consumption information for one meter or register over a number of metering intervals. Accounts that have multiple meters or registers require multiple PTD loops.

Use of The QTY Loop
Each QTY/MEA/DTM loop conveys consumption information about one metering interval for the meter identified in the PTD/REF segment.

Transaction Set Layout

Heading:

	Pos. No.	Seg. ID	Name	Req. Des.	Max. Use	Loop Repeat
Must Use	010	ST	Transaction Set Header	M	1	
Must Use	020	BPT	Beginning Segment for Product Transfer and Resale	M	1	
			LOOP ID - N1			1
Must Use	080	N1	Distribution Company	O	1	
Must Use	120	REF	Distribution Company Acct #	O	1	
			LOOP ID - N1			1
Must Use	080	N1	Supplier Company	O	1	
	120	REF	Supplier Acct #	O	1	

Detail:

	Pos. No.	Seg. ID	Name	Req. Des.	Max. Use	Loop Repeat
			LOOP ID - PTD			>1
Must Use	010	PTD	Product Transfer and Resale Detail	M	1	
Must Use	030	REF	Distribution Company Rate Code	O	1	
	030	REF	Type of Service Indicator	O	1	
Must Use	030	REF	Service Identifier (e.g. meter #)	O	1	
			LOOP ID - QTY			>1
Must Use	110	QTY	Quantity	O	1	
Must Use	160	MEA	Measurements - defined in notes	O	>1	
Must Use	210	DTM	Period Start or End Date	O	>1	

Summary:

	Pos. No.	Seg. ID	Name	Req. Des.	Max. Use	Loop Repeat
Must Use	030	SE	Transaction Set Trailer	M	1	

Segment: **ST Transaction Set Header**
Position: 010
Loop:
Level: Heading:
Usage: Must Use
Max Use: 1
Purpose: To indicate the start of a transaction set and to assign a
                control number
Comments:

Data Element Summary

M/U	Ref. Des. Attributes	Data Elements	Name		
M/U	ST01	143	**Transaction Set Identifier Code**	M	ID 3/3
			Code uniquely identifying a Transaction Set		
			867 **Product Transfer and Resale Report**		
M/U	ST02	329	**Transaction Set Control Number**	M	AN 4/9
			Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set		
			Unique number generated by sender's translator		

Segment: **BPT Beginning Segment for Product Transfer and Resale**
Position: 020
Loop:
Level: Heading:
Usage: Must Use
Max Use: 1
Purpose: To indicate the beginning of the Product Transfer and Resale
Report Transaction Set and transmit identifying data
Comments:

Data Element Summary

	Ref. Des. Attributes	Data Elements	Name		
M/U	BPT01	353	**Transaction Set Purpose Code**	M	**ID 2/2**
			Code identifying purpose of transaction set		
			52　　　　　　　**Response to Historical Inquiry**		
	BPT02	127	**Reference Identification**	O	**AN 1/30**
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier		
			Unique Tracking number assigned by Sender.		
M/U	BPT03	373	**Date**	M	**DT 8/8**
			Date expressed as CCYYMMDD		
			Transaction Creation Date		
M/U	BPT04	755	**Report Type Code**	O	**ID 2/2**
			Code indicating title or contents of a document, report or supporting item.		
			DD　　Distributor Inventory Report (usage)		

Segment:	**N1 Name - Distribution Company**			
Position:	080			
Loop:	N1			
Level:	Heading:			
Usage:	Must Use			
Max Use:	1			
Purpose:	To identify a party by type of organization, name, and code			
Comments:	1. This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.			
	2. N105 and N106 further define the type of entity in N101.			

Data Element Summary

	Ref. Des. Attributes	Data Elements	Name		
M/U	N101	98	**Entity Identifier Code**	M	ID 2/3
			Code identifying an organizational entity, a physical location, property or an individual		
			8S **Consumer Service Provider (T&D)**		
	N102	93	**Name**	X	AN 1/60
			Free-form name		
			Distribution Company Name		
M/U	N103	66	**Identification Code Qualifier**	X	ID 1/2
			Code designating the system/method of code structure used for Identification Code (67)		
			1 **D-U-N-S Number, Dun & Bradstreet**		
M/U	N104	67	**Identification Code**	X	AN 2/80
			Code identifying a party or other code		
			Distribution Company DUNS number		

Segment: **REF Reference Identification – Distribution Company**
                            Account Number

Position:	120
Loop:	N1
Level:	Heading:
Usage:	Must Use
Max Use:	1
Purpose:	To specify identifying information
Comments:	

Data Element Summary

M/U	Ref. Des. Attributes	Data Elements	Name		
M/U	REF01	128	**Reference Identification Qualifier**	M	ID 2/3
			Code qualifying the Reference Identification		
			12 Billing Account		
			** Utility assigned account number for the end use customer.**		
M/U	REF02	127	**Reference Identification**	X	AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier		
			Distribution Company Account number		

Segment: **N1 Name - Supplier Company**

Position: 080
Loop: N1
Level: Heading:
Usage: (Must Use)
Max Use: 1
Purpose: To identify a party by type of organization, name, and code
Comments: 1.   This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.
    2.   N105 and N106 further define the type of entity in N101.

Data Element Summary

M/U	Ref. Des. Attributes	Data Elements	Name		
M/U	N101	98	**Entity Identifier Code** Code identifying an organizational entity, a physical location, property or an individual	M	ID 2/3
			SJ **Service Provider (CES)**		
	N102	93	**Name** Free-form name	X	AN 1/60
			Supplier Company Name		
M/U	N103	66	**Identification Code Qualifier** Code designating the system/method of code structure used for Identification Code (67)	X	ID 1/2
			9 **D-U-N-S Number, Dun & Bradstreet plus four**		
M/U	N104	67	**Identification Code** Code identifying a party or other code	X	AN 2/80
			Supplier Company DUNS number plus four		

Segment: **REF Reference Identification - Supplier Account Number**

Position: 120
Loop: N1
Level: Heading:
Usage: Optional
Max Use: 1
Purpose: To specify identifying information
Comments: Supplier/Broker Account number will be returned if it was
                 provided with initial request.

Data Element Summary

	Ref. Des. Attributes	Data Elements	Name		
M/U	REF01	128	**Reference Identification Qualifier**	M	ID 2/3
			Code qualifying the Reference Identification		
			11 Account Number		
M/U	REF02	127	**Reference Identification**	X	AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier		
			Supplier Account number		

Segment: **PTD Product Transfer and Resale Detail**

Position: 010
Loop: PTD
Level: Detail:
Usage: Must Use
Max Use: 1
Purpose: To indicate the start of detail information relating to the
        transfer/resale of a product and provide identifying data
Comments:

Data Element Summary

	Ref. Des. Attributes	Data Elements	Name		
M/U	PTD01	521	**Product Transfer Type Code**	**M**	**ID 2/2**
			Code identifying the type of product transfer		
			PM **Physical Meter Information**		
M/U	PTD04	128	**Reference Identification Qualifier**	**X**	**ID 2/3**
			Code qualifying the reference identification		
			OZ **Product Number**		
M/U	PTD05	127	**Reference Identification**	**X**	**AN 1/30**
			Reference information as defined for a particular transaction set or as specified by the reference identification qualifier		
			EL **Electric Service**		

Segment: **REF Reference Identification - Distribution Company Rate Code**
Position: 030
Loop: PTD
Level: Detail:
Usage: Must Use
Max Use: 1
Purpose: To specify identifying information
Comments:

Data Element Summary

	Ref. Des. Attributes	Data Elements	Name		
M/U	REF01	128	**Reference Identification Qualifier**	M	ID 2/3
			Code qualifying the Reference Identification		
			NH Rate Card Number		
M/U	REF02	127	**Reference Identification**	X	AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier		
			Distribution Company rate code		

Segment: **REF Reference Identification - Type of Service Indicator**
Position: 030
Loop: PTD
Level: Detail:
Usage: Must Use
Max Use: 1
Purpose: To specify identifying information
Comments:

Data Element Summary

M/U	Ref. Des. Attributes	Data Elements	Name		
M/U	REF01	128	**Reference Identification Qualifier**	M	ID 2/3
			Code qualifying the Reference Identification		
			PRT Product Type		
	REF02	127	**Reference Identification**	X	AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier		
			Type of Service		
			C = Combined Service (multiple meters)		
			D = Metered Service Demand & kWh		
			E = Metered Service kWh		
			H = Controlled Hot Water		
			L = Lighting Service		
			N = Non-Metered Service		
			T = Metered Service TOU		
			A = Apply to all services		
			P = Pending		

Segment: **REF Reference Identification - Service Identifier**
Position: 030
Loop: PTD
Level: Detail:
Usage: Must Use
Max Use: 1
Purpose: To specify identifying information
Comments:

Data Element Summary

	Ref. Des. Attributes	Data Elements	Name		
M/U	REF01	128	**Reference Identification Qualifier**	M	**ID 2/3**

Code qualifying the Reference Identification

MG	Meter Number
SC	Service Indicator

M/U	REF02	127	**Reference Identification**	X	**AN 1/30**

Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier

If REF01 contains MG, REF02 must contain the meter number.
If REF01 contains SC, REF02 contains a 'U' and REF03 contains a description of the unmetered rate plan.

	REF03	352	**Description**	X	**AN 1/80**

A free-form description to clarify the related data elements and their content.

Unmetered rate plan description.

Segment: QTY Quantity
Position: 110
Loop: QTY
Level: Detail:
Usage: Must Use
Max Use: 1
Purpose: To specify quantity information
Comments:

Data Element Summary

	Ref. Des. Attributes	Data Elements	Name		
M/U	QTY01	673	**Quantity Qualifier**	M	ID 2/2
			Code specifying the type of quantity		
			QD **Quantity Delivered**		
M/U	QTY04	61	Free-form message	M	AN 1/30
			Free-form information		
			NV **No Value**		

Segment: **MEA Measurements**
Position: 160
Loop: QTY
Level: Detail:
Usage: Optional
Max Use: >1
Purpose: To specify historical usage or demand measurements.
Comments:

Data Element Summary

	Ref. Des. Attributes	Data Elements	Name		
M/U	MEA01	737	**Measurement Reference ID Code** Code identifying the broad category to which a measurement applies	M	ID 2/2
			BO - Calculated **EN - Estimated** **AN - Actual**		
M/U	MEA03	739	**Measurement Value** The value of the measurement	X	R 1/20
			Actual usage or demand value		
M/U	MEA04	C001	**Composite Unit of Measure** To identify a composite unit of measure	X	
	C00101	355	**Unit or Basis for Measurement Code** Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	M	ID 2/2
			K1 - Kilowatt Demand **KH - KWH** **K5 - KvarH** **K2 - Kvar Demand**		
M/U	MEA07	935	**Measurement Significance Code** Code used to benchmark, qualify or further define a measurement value	O	ID 2/2
			41 - Off-peak **42 - On-peak** **66 - Shoulder** **51 - Total**		

Segment: **DTM Date/Time Reference - Period**
Position: 210
Loop: QTY
Level: Detail:
Usage: Must Use
Max Use: >1
Purpose: To specify pertinent dates and times
Comments:

Data Element Summary

	Ref. Des. Attributes	Data Elements	Name		
M/U	DTM01	374	**Date/Time Qualifier**	M	ID 3/3
			Code specifying type of date or time, or both date and time		
			150 - Service Period Start		
			151 - Service Period End		
M/U	DTM05	1250	**Date Time Period Format Qualifier**	X	ID 2/3
			Code indicating the date format, time format, or date and time format		
			D8 - Date Expressed in Format CCYYMMDD		
M/U	DTM06	1251	**Date Time Period**	X	AN 1/35
			Expression of a date, a time, or range of dates, times or dates and times		
			Date		

Segment: **SE Transaction Set Trailer**
Position: 030
Loop:
Level: Summary:
Usage: Must Use
Max Use: 1
Purpose: To indicate the end of the transaction set and provide the count of the transmitted segments (including the beginning (ST) and ending (SE) segments)
Comments: SE is the last segment of each transaction set.

Data Element Summary

	Ref. Des. Attributes	Data Elements	Name		
M/U	SE01	96	**Number of Included Segments**	M	N0 1/10
			Total number of segments included in a transaction set including ST and SE segments		
M/U	SE02	329	**Transaction Set Control Number**	M	AN 4/9
			Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set		

997 Functional Acknowledgment
Ver/Rel 004010

Functional Group ID=FA

Introduction

The transaction set can be used to define the control structures for a set of acknowledgments to indicate the results of the syntactical analysis of the electronically encoded documents. The encoded documents are the transaction sets, which are grouped in functional groups, used in defining transactions for business data interchange. This standard does not cover the semantic meaning of the information encoded in the transaction sets.

Business Function

Functional Acknowledgment   (997)

Transaction Set Notes

1. These acknowledgments shall not be acknowledged, thereby preventing an endless cycle of acknowledgments of acknowledgments.
2. The data segments of this standard are used to report the results of the syntactical analysis of the functional groups of transaction sets; they report the extent to which the syntax complies with the standards for transaction sets and functional groups. They do not report on the semantic meaning of the transaction sets (for example, on the ability of the receiver to comply with the request of the sender).

Transaction Best Practices

AK1 is used to respond to the functional group header and to start the acknowledgement for a functional group. There shall be one AK1 segment for the functional group that is being acknowledged.

AK2 is used to start the acknowledgement of a transaction set within the received functional group. The AK2 segments shall appear in the same order as the transaction sets in the functional group that has been received and is being acknowledged.

The Functional Group Header Segment (GS) is used to start the envelope for the Functional Acknowledgment Transaction Sets. In preparing the functional group of acknowledgments, the application sender's code and the application receiver's code, taken from the functional group being acknowledged, are exchanged; therefore, one acknowledgment functional group responds to only those functional groups from one application receiver's code to one application sender's code.

Transaction Set Layout

Header:

	Pos. No.	Seg. ID	Name	Req. Des.	Max. Use	Loop Repeat	Notes & Comments
Must Use	010	ST	Transaction Set Header	M	1		n1

Detail:

	Pos. No.	Seg. ID	Name	Req. Des.	Max. Use	Loop Repeat	Notes & Comments
Must Use	020	AK1	Functional Group Response Header	M	1		n2
			LOOP ID - AK2			999999	
	030	AK2	Transaction Set Response Header	O	1		n3
			LOOP ID - AK3			999999	
	040	AK3	Data Segment Note	O	1		c1
	050	AK4	Data Element Note	O	99		
Must Use	060	AK5	Transaction Set Response Trailer	M	1		
Must Use	070	AK9	Functional Group Response Trailer	M	1		

Summary:

	Pos. No.	Seg. ID	Name	Req. Des.	Max. Use	Loop Repeat	Notes & Comments
Must Use	080	SE	Transaction Set Trailer	M	1		

Segment: **ST Transaction Set Header**
Position: 010
Loop:
Level:
Usage: Must Use
Max Use: 1
Purpose: To indicate the start of a transaction set and to assign a control
number

Comments:

Data Element Summary

	Ref. Des. Attributes	Data Elements	Name		
M/U	ST01	143	**Transaction Set Identifier Code**	M	ID 3/3
			Code uniquely identifying a Transaction Set		
M/U	ST02	329	**Transaction Set Control Number**	M	AN 4/9
			Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set.		

Segment: **AK1 Functional Group Response Header**
Position: 020
Loop:
Level:
Usage: Must Use
Max Use: 1
Purpose: To start acknowledgment of a functional group
Comments:

Data Element Summary

M/U	Ref. Des. Attributes	Data Elements	Name		
M/U	AK101	479	**Functional Identifier Code**	M	ID 2/2
			Code identifying a group of application related transaction sets		
			IN - 810 Invoice Information		
			- 814		
			RA - 820 Payment Order/Remittance Advice		
			AG - 824 Application Advice		
			PT - 867 Product Transfer & Resale Report		
M/U	AK102	28	**Group Control Number**	M	N0 1/9
			Assigned number originated and maintained by the sender		

Segment: **AK2 Transaction Set Response Header**
Position: 030
Loop: AK2
Level:
Usage: Optional
Max Use: 1
Purpose: To start acknowledgment of a single transaction set
Comments:

Data Element Summary

M/U	Ref. Des. Attributes	Data Elements	Name		
M/U	AK201	143	**Transaction Set Identifier Code**	**M**	**ID 3/3**
			Code uniquely identifying a Transaction Set		
			810		
			814		
			820		
			824		
			867		
M/U	AK202	329	**Transaction Set Control Number**	**M**	**AN 4/9**
			Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set		

Segment:	**AK3 Data Segment Note**				
Position:	040				
Loop:	AK3				
Level:					
Usage:	Optional				
Max Use:	1				
Purpose:	To report errors in a data segment and identify the location of the data segment				
Comments:					

Data Element Summary

M/U	Ref. Des. Attributes	Data Elements	Name		
M/U	AK301	721	**Segment ID Code**	M	ID 2/3
			Code defining the segment ID of the data segment in error (See Appendix A - Number 77)		
M/U	AK302	719	**Segment Position in Transaction Set**	M	N0 1/6
			The numerical count position of this data segment from the start of the transaction set: the transaction set header is count position 1		
	AK303	447	**Loop Identifier Code**	O	AN 1/6
			The loop ID number given on the transaction set diagram is the value for this data element in segments LS and LE		
	AK304	720	**Segment Syntax Error Code**	O	ID 1/3
			Code indicating error found based on the syntax editing of a segment		

1 - Unrecognized segment ID
2 - Unexpected segment
3 - Mandatory segment missing
4 - Loop Occurs Over Maximum Times
5 - Segment Exceeds Maximum Use
6 - Segment Not in Defined Transaction Set
7 - Segment Not in Proper Sequence

Segment: **AK4 Data Element Note**
Position: 050
Loop: AK3
Level:
Usage: Optional
Max Use: 99
Purpose: To report errors in a data element and identify the location of the data element

Comments:

Data Element Summary

	Ref. Des. Attributes	Data Elements	Name		
M/U	AK401	C030	Position in Segment	M	
			Code indicating the relative position of a simple data element, or the relative position of a composite data structure combined with the relative position of the component data element within the composite data structure, in error; the count starts with 1 for the simple data element or composite data structure immediately following the segment ID		
M/U	C03001	722	Element Position in Segment	M	N0 1/2
			This is used to indicate the relative position of a simple data element, or the relative position of a composite data structure with the relative position of the component within the composite data structure, in error; in the data segment the count starts with 1 for the simple data element or composite data structure immediately following the segment ID		
	C03002	1528	Component Data Element Position in Composite	O	N0 1/2
			To identify the component data element position within the composite that is in error		
	AK402	725	Data Element Reference Number	O	N0 1/4
			Reference number used to locate the data element in the Data Element Dictionary		
M/U	AK403	723	Data Element Syntax Error Code	M	ID 1/3
			Code indicating the error found after syntax edits of a data element		

1 - Mandatory data element missing
2 - Conditional required data element missing
3 - Too many data elements
4 - Data element too short
5 - Data element too long
6 - Invalid character in data element
7 - Invalid code value
8 - Invalid Date
9 - Invalid Time
10 - Exclusion Condition Violated

	Ref. Des. Attributes	Data Elements	Name		
	AK404	724	Copy of Bad Data Element	O	AN 1/99
			This is a copy of the data element in error		

Segment: **AK5 Transaction Set Response Trailer**
Position: 060
Loop:
Level:
Usage: Must Use
Max Use: 1
Purpose: To acknowledge acceptance or rejection and report errors in a
              transaction set
  Comments:

Data Element Summary

M/U	Ref. Des. Attributes	Data Elements	Name
M/U	AK501	717	**Transaction Set Acknowledgment Code** M ID 1/1

Code indicating accept or reject condition based on the syntax editing of the
transaction set

A - Accepted
E - Accepted But Errors Were Noted
M,R,X - Rejected

| | AK502 | 718 | **Transaction Set Syntax Error Code**   O   ID 1/3 |

Code indicating error found based on the syntax editing of a transaction set

1 - Transaction Set Not Supported
2 - Transaction Set Trailer Missing
3 -Transaction Set Control Number in Header & Trailer So Not Match
4 - Number of Included Segments Does Not Match Actual Count
5 - One or More Segments in Error
6 - Missing or Invalid Transaction Set Identifier
7 - Missing or Invalid Transaction set Control Number
8 - Authentication Key Name Unknown
9 - Encryption Key Name Unknown
10 - Requested Service (Authentication or Encrypted) Not Available
11 - Unknown Security Recipient
12 - Incorrect Message Length (Encryption Only)
13 - Message Authentication Code Failed
14 - Unknown Security Originator
15 - Syntax Error in Decrypted Text
16 - Security Not Supported
19 - S1E Security End Segment Missing for S1S Security Start Segment
20 - S1S Security Start Segment Missing for S1E Security End Segment
21 - S3E Security End Segment Missing for S2S Security Start Segment
22 - S2S Security Start Segment Missing for S2E Security End Segment
23 - Transaction Set Control Number Not Unique within the Functional
Group

| | AK503 | 718 | **Transaction Set Syntax Error Code**   ID 1/3 |

Code indicating error found based on the syntax editing of a transaction set

| | AK504 | 718 | **Transaction Set Syntax Error Code**   O   ID 1/3 |

Code indicating error found based on the syntax editing of a transaction set

| | AK505 | 718 | **Transaction Set Syntax Error Code**   O   ID 1/3 |

Code indicating error found based on the syntax editing of a transaction set

| | AK506 | 718 | **Transaction Set Syntax Error Code**   O   ID 1/3 |

Code indicating error found based on the syntax editing of a transaction set

Segment: **AK9 Functional Group Response Trailer**
Position: 070
Loop:
Level:
Usage: Must Use
Max Use: 1
Purpose: To acknowledge acceptance or rejection of a functional group and
                report the number of included transaction sets from the original trailer,
                the accepted sets, and the received sets in this functional group
Comments: If AK901 contains the value "A" or "E", then the transmitted
                functional group is accepted. If AK901 contains the value "R", then
                the transmitted group is rejected.

Data Element Summary

	Ref. Des. Attributes	Data Elements	Name
M/U	AK901	715	**Functional Group Acknowledge Code** M ID 1/1

Code indicating accept or reject condition based on the syntax editing of the
functional group
A - Accepted
E - Accepted
M - Rejected
P - Partially Accepted
R - Rejected
X - Rejected

M/U	AK902	97	**Number of Transaction Sets Included** M N0 1/6

Total number of transaction sets included in the functional group or
interchange (transmission) group terminated by the trailer containing this
data element

M/U	AK903	123	**Number of Received Transaction Sets** M N0 1/6

Number of Transaction Sets received

M/U	AK904	2	**Number of Accepted Transaction Sets** M N0 1/6

Number of accepted Transaction Sets in a Functional Group

	AK905	716	**Functional Group Syntax Error Code** O ID 1/3

Code indicating error found based on the syntax editing of the functional
group header and/or trailer
1 - Functional Group Not Supported
2 - Functional Group Version Not Supported
3 - Functional Group Trailer Missing
4 - Group Control Number in the Functional Group header and Trailer
5 - Number of Included Transaction Sets Does Not Match Actual Count
6 - Group Control Number Violates Syntax
10 - Authentication Key Name Unknown
11 - Encryption Key Name Unknown
12 - Requested Service (Authentication or Encryption) Not Available
13 - Unknown Security Recipient
14 - Unknown Security Originator
15 - Syntax Error in Decrypted Text
16 - Security Not Supported
17 - Incorrect Message Length (Encryption Only)
18 - Message Authentication Code Failed
19 - S1E Security End Segment Missing for S1S Security Start Segment

20 - S1E Security End Segment Missing for S2S Security Start Segment
21 - S2E Security End Segment Missing for S2S Security Start Segment
22 - S2S Security Start Segment Missing for S2E Security End Segment

AK906   **716**   **Functional Group Syntax Error Code**   **O**   **ID 1/3**
Code indicating error found based on the syntax editing of the functional
group header and/or trailer

AK907   **716**   **Functional Group Syntax Error Code**   **O**   **ID 1/3**
Code indicating error found based on the syntax editing of the functional
group header and/or trailer

AK908   **716**   **Functional Group Syntax Error Code**   **O**   **ID 1/3**
Code indicating error found based on the syntax editing of the functional
group header and/or trailer

AK909   **716**   **Functional Group Syntax Error Code**   **O**   **ID 1/3**
Code indicating error found based on the syntax editing of the functional
group header and/or trailer

Segment: **SE Transaction Set Trailer**
Position: 080
Loop:
Level:
Usage: Must Use
Max Use: 1
Purpose: To indicate the end of the transaction set and provide the count of the transmitted segments (including the beginning (ST) and ending (SE) segments)
Comments: SE is the last segment of each transaction set.

Data Element Summary

	Ref. Des. Attributes	Data Elements	Name		
M/U	SE01	96	**Number of Included Segments**	M	N0 1/10
			Total number of segments included in a transaction set including ST and SE segments		
M/U	SE02	329	**Transaction Set Control Number**	M	AN 4/9
			Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set		